

OUTLOOK

A WEEKLY NEWSPAPER FOR FACULTY AND STAFF AT THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

MARCH 11, 1991
VOLUME 5, NUMBER 21

New Distinguished Scholar-Teachers Chosen

Three College Park faculty members, noted for excellence in both teaching and research, have been named College Park's Distinguished Scholar-Teachers for 1991-92.

The award winners are George Callcott, professor of history; Bruce Jarvis, professor of chemistry and biochemistry; and Raymond Paternoster, associate professor of criminal justice and criminology.

The 1991-92 Distinguished Scholar-Teachers were selected by a committee of students and faculty members chaired by Kathryn J. Mohrman, dean of undergraduate studies.

The honorees will receive a \$1,000 award for professional expenses and each will present a public lecture in the spring of 1992. Because the university budget crisis has reduced the funds available for the program, the 1991-92 award winners will not receive leave from regular teaching duties in order to design and teach special courses, says Susan Koonce, assistant dean of undergraduate studies.

Each of the award winners is a respected scholar in his or her field and has developed a reputation for outstanding teaching.

George Callcott is a leading scholar of State of Maryland history and the preeminent authority on the history of the University of Maryland. His book, *Maryland and America, 1940 to 1980* (Johns Hopkins Press, 1985), examines Maryland as a microcosm of America during the World War II and post-war eras. His university history, *A History of the University of Maryland*,

(Maryland Historical Society, 1968), describes the founding of institutions in Baltimore and College Park that would comprise the University of Maryland and documents their history through the 1960s.

Callcott has been honored numerous times throughout his career for his skill in the classroom. In 1968, he was named as one of 33 "superprofs" by *Esquire Magazine*. The College of Arts and Humanities selected him as the winner of its annual "Excellence in Teaching Award" in 1987.

Bruce Jarvis has made major contributions to the study of physical organic chemistry, especially in the area of natural products chemistry. He is a leading expert on mycotoxins, extremely poisonous materials that are most often produced by molds and which contaminate foods and "sick" buildings.

Through a research program at College Park, Jarvis has shown that mycotoxins are produced by plants and has theorized that a rather unique interspecies gene transfer from mold to plant is responsible for the production of these materials in plants.

As a teacher, Jarvis is highly regarded at both the undergraduate and graduate levels. Pre-med students encounter Jarvis in his demanding sophomore level organic chemistry course. At the graduate level, he has successfully trained 17 Ph.D. students and eight postdoctoral fellows.

Raymond Paternoster is a nationally renowned authority on the death penalty and the theory that the death penalty is a deterrent



Clockwise from top:

George Callcott

Bruce Jarvis

Raymond Paternoster



to crime. His forthcoming book, *The Death Penalty in America*, which will be published by Lexington Books in 1991, has received advance praise for its observations on the role of the death penalty in the American criminal justice system.

As a teacher, Paternoster is widely known for the popularity of his classes at the undergraduate and graduate levels. In 1989, he was nominated by the Institute of Criminal Justice and Criminology for an award as outstanding teacher in the College of Behavioral and Social Sciences.

Brian Busek

INSIDE

Technology Liaison Office Has Active Year

Income from technology transfer is up 2

Finding New High Tech Uses for Ceramics

Lloyd does conductivity and microscopy studies 4

Listening as a Communication Skill

Wolvin assesses climate, channels and commitment 5

General Research Awards Announced

Sixty-eight faculty selected 6

Soviet High Technology to be Showcased for First Time in U.S.

For the first time ever, the United States and the Western World will be able to view some of the Soviet Union's best high-tech equipment, instrumentation and software on March 17, 18 and 19 at College Park's first Soviet Technology Exhibit and Symposium.

About 50 state-of-the-art Soviet products will be displayed, including x-ray detectors, some of the remotely controlled robot rovers used during the Chernobyl reactor disaster, lasers, exotic spacecraft systems housed in a mock-up Soviet spacecraft, materials processing equipment for use in space, satellite remote sensing devices, and various software products. Soviet scientific experts will be on hand to demonstrate the products and to answer questions.

Several of the Soviet Union's leading scientists will discuss mutual commercial and scientific opportunities between the U.S.S.R.

and the United States. The keynote speaker will be Yuri Ossipian, science advisor to Mikhail Gorbachev and vice-president of the Soviet Academy of Sciences. Other speakers include Yuri Ryzhov, director of Moscow's Space Research Institute and Alec Galeev, Director of Moscow's Space Research Institute.

Gov. William Donald Schaefer will open the proceedings, and participants will include a NASA representative and business leaders from such major U.S. corporations as IBM and the Polaroid company.

The event is being sponsored by College Park's East-West Science and Technology Center and the Soviet-American Venture Initiative, with support from the Office of Technology Liaison.

The exhibit and symposium will be held at the Center of Adult Education. Call Molly G. Brennan at 405-7280 for information.

Campus to Host Conference for Blacks in Higher Education

The College Park Black Faculty and Staff Association will host the 4th Annual Conference for Blacks in Higher Education, Friday, April 19 at the Center of Adult Education. The theme of day-long conference, which begins at 8 a.m., is "African Americans in Higher Education: Linking Our Past, Present and Future." It will feature speakers Franklyn G. Jenifer, president of Howard University, and Crystal Arlene Kuykendall, president of Kuykendall LTD and author of the book *Improving Black Student Achievement Through Enhancing Self-Image*. The registration fee is \$50 (\$40 for BFSA members) with a deadline of April 1. For more information, call Sharon Fries-Britt, (301) 314-8431.

Volunteer Faculty Advisors Sought

During the current academic year, the Undergraduate Advising Center has been able to assign more than 350 of its nearly 1,000 freshmen to College Park faculty advisors. These advisors represent more than 20 departments from nearly every college on campus.

But, according to Betty Beckley, assistant dean for undergraduate studies and coordinator of undergraduate advising, the 1991-92 academic year could pose more severe problems.

Nearly half of the some 3,000 entering freshmen and more than 500 new transfer students are expected to be advised through the Division of Letters and Sciences (the Advising Center's new name) for the first year or two—until they are prepared to choose a major.

Because of the economic constraints that are having an impact on programs and activities across the campus, Beckley says, the Undergraduate Advising Center is asking College Park faculty members to consider volunteering to advise five or more students next year.

"If 100 faculty would each volunteer either through their depart-

ment or college or to the Division of Letters and Sciences to advise as few as five new freshmen or transfer students during their first year, or until they select a major, we will be able to provide a high quality experience for all our entering students," Beckley says.

Faculty members who volunteer to work through the Division of Letters and Sciences would receive several hours of training. They also would be invited to visit one of the summer freshmen orientation sessions and to meet with their advisees.

During the students' freshman year, the advisors will be asked to provide mentoring services rather than regular advising. These services might include discussions on course selection, budgeting the use of time, choosing a major, making referrals, providing encouragement and the like.

Division of Letters and Sciences staff will be available to work with faculty volunteer advisors to provide technical advising and the clerical backup support that might be necessary.

Marvin Scott, assistant professor of kinesiology, says that when he

began advising two years ago, the initial attraction was the opportunity to help steer undecided students to consider majoring in his special field.

Since then, however, Scott says, he has benefited from the advising experience in a number of ways.

"I've been able to reap a better knowledge of the general educational requirements of the university, the USP and now the CORE requirements that students must meet. It has given me a more global perspective."

He has also become much more aware of and knowledgeable about the various campus resources that are available to students. That in turn, he believes, has made him a more effective advisor to both students in his own discipline as well as those who are undecided as to their major field of study.

For more information about faculty advising, contact Betty Beckley, assistant dean and coordinator of undergraduate advising, at 314-8420.

Tom Otwell

Technology Transfer Business is Booming

For the Office of Technology Liaison, 1990 was a banner year. And 1991 promises to be equally, if not more, impressive.

According to its director Wayne Swann, the office last year identified and documented 46 new technologies developed by College Park researchers. Swann projects that technology transfer income to the campus will more than double last

year's figure of a quarter of a million dollars.

More options and licenses for university inventions were executed during the first six months of Fiscal Year 1991 than in all of the previous year. In addition, ten options/licenses (technology transfer agreements) are pending.

Since it was created more than four years ago, the office has identified and documented 165 new technologies, conducted technology marketing activities that have resulted in the successful execution of 40 technology transfer agreements, and generated more than \$1 million in technology transfer income, Swann says.

A recent innovation that has been licensed is a new procedure for detecting salmonella bacteria which is expected to provide faster and more accurate test results.

The new test process was developed by Edward T. Mallinson of the Virginia-Maryland Regional College of Veterinary Medicine working with researchers from the U.S. Department of Agriculture. The procedure allows for the testing of large numbers of chicken flocks in a short time, a key to locating the sources of contamination before the salmonella enter the food processing and distribution chain.

The new testing procedure was licensed to Environmental Systems Service, Ltd. The Culpepper, Virginia-based company provides high quality biological and chemical technical services to poultry producers and other customers.

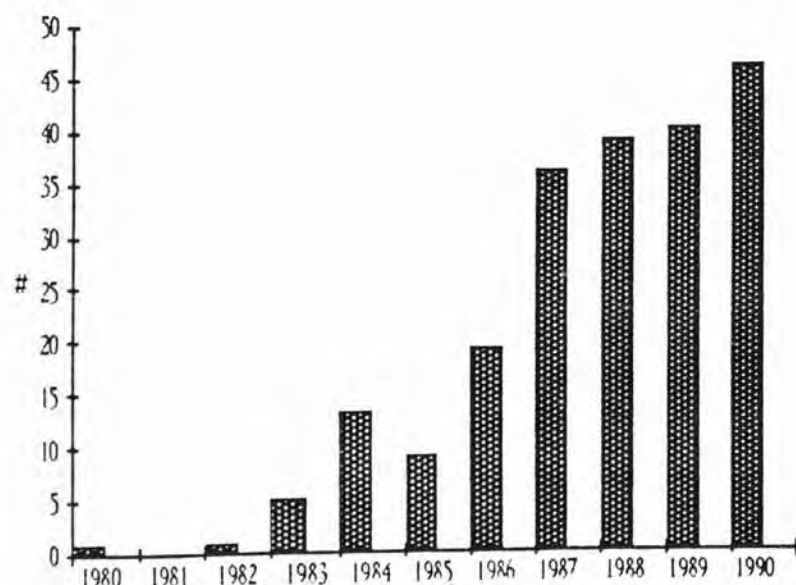
The university's patent disclosure profile (see chart) illustrates the rapid increase over the past decade.

This growth is especially apparent beginning in 1986, the year the Office of Technology Liaison was established.

According to Swann, disclosures continue to come from a wide variety of campus departments, the Maryland Biotechnology Institute, the Engineering Research Center, the Systems Research Center, and other campus-based laboratories and research centers.

Tom Otwell

University of Maryland at College Park
Inventions Disclosed
1980-1990



OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

Kathryn Costello Vice President for Institutional Advancement
Director of Public Information & Editor
Roz Hiebert Production Editor
Linda Freeman Staff Writer
Brian Busek Staff Writer
Lisa Gregory Staff Writer
Tom Otwell Staff Writer
Fariss Samarra Staff Writer
Gary Stephenson Staff Writer
Jennifer Bacon Calendar Editor

Judith Bair Art Director
John Consoli Format Designer
Stephen Darrou Layout & Illustration
Chris Paul Layout & Illustration
Al Danegger Photography
Linda Martin Production
Peter Zulkarnain Production Intern

Letters to the editor, story suggestions, campus information & calendar items are welcome. Please submit all material at least three weeks before the Monday of publication. Send it to Roz Hiebert, Editor Outlook, 2101 Turner Building, through campus mail or to University of Maryland, College Park, MD 20742. Our telephone number is (301) 405-4621. Electronic mail address is outlook@pres.umd.edu. Fax number is (301) 314-9344.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

Campus Child Care Center Has Openings

The Center for Young Children, the university's on-site laboratory Child Care Center, has a few openings for its Summer 1991 program. Applications will be processed on a "first-come first served" basis. Application forms and information brochures are available upon request. The center is also accepting applications for the 1991-92 school year. In April a lottery will be conducted to determine enrollment for new applicants. For more information, call 405-3168.

NEWS

Distinguished Scholar-Teacher Lectures to Begin March 13

Five highly regarded College Park faculty members will present lectures during the next two months as part of the 1991 Distinguished Scholar-Teacher Lecture Series.

Distinguished Scholar-Teachers are relieved of their normal teaching duties and given the opportunity to design and teach courses in their area of expertise—usually a general honors seminar and a course of general interest to undergraduates. Spring public lectures by each

award-winner are also part of the program.

Here is the 1991 lecture schedule:

- **March 13—Charles Butterworth**, professor of government and politics, "Socrates' Islamic Conversion."
- **March 20—Richard Etlin**, professor of architecture, "Creativity in Architecture."
- **April 3—Nancie Gonzalez**, professor of anthropology, "Anthropology as Science and as Fiction."

- **April 10—Ira Berlin**, professor of history, "Emancipation and the Meaning of Freedom in 19th Century America."

- **April 24—Anne Truitt**, professor of art, "The Value of Art."

All of the lectures will be held in the Art/Sociology lecture hall, 2203 Art/Sociology Building, at 4 p.m., with a reception following in the Art/Sociology Atrium.

Letter To the Editor

Women in Science: Good News From the Life Sciences

Professor Brush's report on Degree Attainment in Natural Sciences and Engineering was an excellent piece that correctly described the successes we have had in Life Sciences in attracting talented women to our undergraduate programs. Part of this success is due to our revamped general curriculum (the General Biological Sciences curriculum that Professor Brush alluded to) and our de-emphasis of traditional subdiscipline based curricula in biology. Perhaps the most important component is our faculty commitment to undergraduate education and what I hope is a friendly climate.

Professor Brush's analysis of graduate degrees for women, while

statistically correct, is quite misleading in that the combined numbers (CMPS, ENG, LISC) mask the continued success of the College of Life Sciences in producing women M.S. and Ph.D. scientists. In fact, the number of women graduate students in LISC has remained virtually unchanged in the last five years, rising insignificantly from 44 to 45% resulting in gender balance among our graduate population that, while hard to improve on, is exceptional in the sciences. By individual departments and programs the percentages are: Botany (41); Chemistry and Biochemistry (42); Entomology (42); Marine Environmental and Estuarine Studies and Molecular and Cellular

Biology programs combined (46); Microbiology (51); and Zoology (53). In fact, last year 26 women earned Ph.D. degrees from the College of Life Sciences, a number which appears to represent virtually all of the women who received Ph.D.'s in the natural sciences and engineering at College Park. (*Outlook*, February 25, Figure 8).

The news for women is, in fact, very good in the College of Life Sciences. Our successes should be advertised and celebrated, not buried in statistics.

Paul Mazzocchi
Dean

Colleges of Agriculture
and Life Sciences

College Park Picked to Run EDUCOM Software Awards Program

The University of Maryland at College Park has been selected as the new home for EDUCOM's Higher Education Software Awards Program. The program is widely recognized as one of the most prestigious in the world.

Chad McDaniel and Susan Clabaugh will direct the awards program. McDaniel is director of the Academic Software Development Group at the university's Computer Science Center. Trained as an anthropologist, with special interests in cognitive models and computer simulation, he has been active in the development of discipline-oriented computing tools for more than 20 years.

Clabaugh is director of the Educational Technology Center in the College of Education. Her home discipline is educational technology, where she has more than 20 years experience, with special expertise in video and computing technologies.

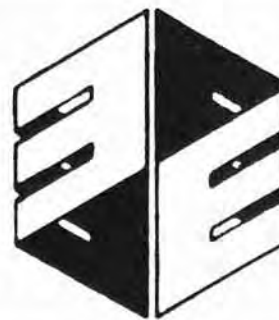
"We are honored that the University of Maryland is the new home for the program," McDaniel says. "We look forward to continuing and hopefully, extending the excellent program that Bob Kozma, Jere Johnson, and EDUCOM began."

Since its inception in 1987, the Software Awards Program was housed at the University of Michigan and co-sponsored by the National Center for Research to Improve Postsecondary Teaching and Learning. In its five years, the program has made 90 awards to individuals representing more than 65 institutions.

The program is designed to foster improvement in the quality of educational software and to promote its effective use in higher education. The program reviews materials and makes awards in two distinct divisions—products (original software designed to enhance student learning) and curriculum innovations (excellence in teaching where computer software has been used to enhance instruction).

During this year's cycle, the program will be making awards in three areas for undergraduate applications—Humanities, Engineering and Mathematics—and one for graduate level—Law.

For more information about the program, contact Chad McDaniel at 405-2920.



ICONS' Landis Speaks at AASA Convention

Patty Landis, simulation director of Project ICONS, spoke at the American Association of School Administrators annual convention in New Orleans earlier this month. The convention's theme was "Technology for the 90s." Landis' topic dealt with "Linkages through Technology."

ICONS, which stands for International Communication and Negotiation Simulations, is a foreign policy and foreign language simulation for high school and university students conducted via a computer network. It was started at College Park ten years ago by Jonathan Wilkenfeld, professor of government and politics and current department chair, and Richard Brecht, professor of Germanic and Slavic Languages.

Sexual Harassment Education Workshop Scheduled

The Office of Human Relations Programs is sponsoring a Sexual Harassment Education Workshop for all faculty and staff. The workshop is scheduled for March 14 from 10 a.m. to 12 noon in the Maryland Room of Marie Mount Hall. To register for the workshop or for more information call 405-2844.

Campus Researcher Probes High Tech Roles for Ceramics

For Isabel Lloyd, ceramics means much more than fine bone china tea cups or bathroom shower stall tiles.

An assistant professor of materials engineering, Lloyd, now in her second year on the College Park faculty, is the first ceramist in the College of Engineering in more than twenty years. Her special research and classroom interests focus on the properties, behavior, fabrication and uses of novel ceramic materials, many of which have found new high technology applications.

"Ceramics research is very appealing to me because it raises both basic science and applied engineering questions," Lloyd says. "It involves a variety of materials that can have a multiplicity of applications relevant to problems of the present and the future."



Isabel Lloyd

When one thinks of ceramics, it is bricks, pottery, earthenware, electrical insulators, spark plugs, as well as tea cups and shower tiles that come to mind.

But like so many other fields, ceramics has undergone remarkable changes in recent years. Ceramic materials now have numerous high technology applications. As a result, they must be more highly refined and their properties better understood.

One class of ceramics of interest to Lloyd are what she calls active electrical ceramics. These include materials whose crystals generate voltage when subjected to pressure or, when subjected to an electrical field, undergo mechanical stress, alternately expanding and contracting.

These piezoelectric ceramics are commonly used in broadcast transmitters, radar and sonar, and stereo system pick-up needles.

They also have application in such high tech devices as ultra-sonic cleaners, micropositioners used to adjust the mirrors on space telescopes or in other situations where very fine remotely controlled positioning is called for, or on control devices used to change light waves in fiber optic cables.

"The way ceramic materials are fabricated affects their structure and

their behavior in application," Lloyd says.

By studying the relationships between processing and piezoelectric behavior, particularly the chemical homogeneity and near surface polarization of these ceramic materials, Lloyd hopes to provide the foundation for a new generation of devices.

Another area of Lloyd's research involves less active ceramics. Currently she is working with samples made of aluminum oxide, a ceramic material commonly used as an electric substrate and packaging material as an electrical insulator.

Televisions, video recorders, radios and most other consumer electronic products employ epoxy semiconductor circuit boards. But for supercomputers and military and space electronics that may be subjected to severe heat or cold, aluminum oxide ceramic circuit boards are used because they are mechanically stronger and can seal out the hostile environment, Lloyd says.

Lloyd currently is carrying out studies of both the conductivity of these ceramic materials as well as their microstructure. Such research involves both scanning and transmission electron microscopy techniques involving magnifications of one hundred thousand or more to determine how individual crystals are bonded together.

In a lab furnace, aluminum oxide powder is heated to temperatures of 1000 degrees C or more to create the densely-bonded ceramic material. Impurities are added to facilitate this bonding process. But, as Lloyd notes, the effect of these impurities on the grain boundaries—the zone between single aluminum oxide crystals created during the bonding process—is not known. Her research focuses on this question.

Lloyd, who says she is very much an experimentalist, believes she may be the only ceramist in the country currently carrying out both conductivity and microscopy studies of ceramic materials.

In addition to her research, Lloyd is teaching a graduate course on electronic ceramics that explores their use as superconductors, semiconductors, fuel cells, batteries, sensors and lightening protectors. She is also teaching a 400-level introduction to ceramics class that focuses on their basic properties, how and why they work, and their applications.

Even as a child, Lloyd says, she was fascinated with how things worked. "I took everything apart and I loved looking at those working models in museums."

As an undergraduate student, she began as a chemistry major at Pennsylvania State University, but was quickly wooed by Penn's small but growing ceramics program and earned her B.S. degree in ceramic science. Her Ph.D. is in ceramics from the Massachusetts Institute of Technology.

Prior to joining the Maryland faculty, she had been a visiting scientist at the Naval Research Laboratory and before that an assistant professor of materials science and engineering at the University of Pittsburgh. Lloyd also has worked at Westinghouse Electric Corporation's Research and Development Center.

Tom Otwell

Engineering Lecture to Celebrate Women's History Month

Lilia Abron, president and founder of PEER Consultants, will deliver a lecture entitled "Impact of Women on the Stability of the Engineering Profession in the United States" as part of the College of Engineering's celebration of Women's History Month.

The lecture will be held Tuesday, March 12 at 2 p.m. in the Judith Resnik Lecture Hall (Room 1202) of the Engineering Classroom Building.

PEER Consultants is an environmental and sanitary engineering firm with headquarters in Washington, D.C. and eight regional offices in the Eastern United States. Founded by Abron in 1978, it has 80 employees.

Abron holds a B.S. degree in chemistry from LeMoyne College in Memphis, an M.S. in environmental and sanitary engineering from Washington University, and a Ph.D. in chemical engineering from the University of Iowa.

She has worked on environmental problems as a research chemist and sanitary engineer and has taught at Vanderbilt, Tennessee State and Howard universities.

University Community Concerts Celebrates 15th Season

To celebrate 15 years of presenting outstanding artists and ensembles to the university and Washington area music lovers, University Community Concerts will host a gala benefit performance, Monday, March 18th at 7:30 p.m., at Arena Stage's Kreeger Theatre. Featured artists will be the Klezmer Conservatory Band, a lively, eleven-piece band that has offered an eclectic brand of Yiddish music to audiences throughout Eastern Europe and America. Tickets are \$25 to the concert only, and \$75 for the concert, supper party and dance. Call 403-4240 for info.

ARTS

Wolvin Finds Listening as Important as Speaking

To Andrew Wolvin, chair of the department of speech communication, the name of his department touches on only half of the equation.

In verbal communication, the speaker gets most of the attention, but the listener provides at least 50 percent of the input, Wolvin says.

Wolvin, however, devotes well in excess of 50 percent of his scholarly attention to the listening side of verbal communication. A national expert on listening, he is the co-author of a standard textbook on the subject and has done consulting work on listening training with a number of major corporations.

"One of the basic points about listening is that it is a central function in communications in both personal relationships and large organizations," Wolvin says.

Listening is not a passive act, and it is an activity that goes beyond merely receiving a message, he says. Through training, people can learn to become more active and effective listeners.

Concentration, attention and energy levels all affect the quality of listening, Wolvin says. By raising these levels people can become better listeners.

One of the common pitfalls of good listening is the fact that people process verbal information more quickly than it is delivered. Studies have shown that people listen about four times more quickly than they speak, Wolvin says. The way in

which a person uses that differential often determines the quality of that person's listening.

In examining the quality of listening within large organizations, the "listening environment" becomes a crucial element, Wolvin says. Building a positive listening environment is a common goal within corporation and other large institutions, he says.

In a recent survey of listening training within Fortune 500 companies for a forthcoming paper, Wolvin and his colleague Carolyn Gwynn Coakley found that corporate managers see listening as an important part of corporate communications and that they have found that training improves employee listening skills.

Closer to home, as chair of the Campus Senate Task Force on Non-Senate Governance, Wolvin is applying his expertise to the university's decision-making process. He has identified three areas of communication that should receive special attention in the communications process: climate, channels and commitment.

The study of listening is a relatively new endeavor and one that usually receives less emphasis than speech.

"The subject has been somewhat overlooked historically. But actually people tend to spend most of their time as communicators listening," Wolvin says.

Brian Busek



Andrew Wolvin

Communicating at College Park

In his role as chair of the Campus Senate Task Force on Non-Senate Governance, Andrew Wolvin, chair of the department of speech communication, is lending his expertise in listening and other aspects of communication to university governance issues.

"Studies of corporate America today consistently identify effective communication as one of the hallmarks of organizational excellence.Clearly, this need for effective communication extends to educational organizations as well," Wolvin says in a forthcoming article for *The Faculty Voice*.

Here are some excerpts of Wolvin's observations on climate, channels and commitment within the communications environment at College Park:

Climate—"The communication climate at College Park is perceived to be troublesome. While strong organizations work at developing an open communication climate, we have heard concerns on this campus that our communication climate is the predictable byproduct of much too closed a system."

Channels—"The (College Park) communications channels are more healthy than our climate perceptions might suggest. The Campus Senate, for example, serves as the main conduit for decision-making on the campus...the *Outlook* campus newsletter reaches everyone with coverage of major issues we face as a campus community...And the campus administration is certainly open and responsive to faculty, staff and student concerns alike. Indeed, the communication channels at the campus level are in place."

Commitment—"An important third dimension of a healthy organizational communication system is a strong sense of commitment to maintaining those communication channels. As a faculty we have made remarkable strides forward in the past few years in gaining access to information and in participating in the decision-making process...My experience in organizations would suggest, however, that campus administrators will be interested in including faculty at the center of the decision-making process only insofar as we are willing to be equal partners in the two-way communication process."

Historic Preservation Program Taps Into Resources On and Off Campus

The opportunities more than equal the number of students in College Park's historic preservation graduate certificate program.

The program's 19 students benefit from a variety of resources both on and off campus, says J. Kirkpatrick Flack, associate professor of history and chair of the academic committee that oversees the program.

On campus, students in the four-year-old program can tap into the National Trust for Historic Preservation Library, the largest preservation library in the United States. The collection was transferred into the university in 1986.

Students are also eligible to work on preservation projects sponsored by the seven academic departments and institutes participating in the program such as the Department of Architecture's Cape May and Kiplin Hall restoration projects. The program brings together students from the departments of architecture, history, geography anthropology, American studies, horticulture, and the urban studies and planning institute for an eclectic study of preservation issues, according to Flack.

David Fogle, associate professor of architecture, was recently appointed director of the program.

Off campus, students receive hands-on training through joint programs involving local historical sites. For instance, students will participate in a conference on the restoration of Riverdale's historic Calvert home April 20-21.

Since January 1989, seven historic preservation students have been working with teams of professional researchers on a project at Harpers Ferry National Historical Park. As part of their work on this National Park Service-sponsored project, the students have been preparing historic structures reports tracing the histories of buildings in the lower town of Harpers Ferry.

"We're working to expand our contacts with the National Park Service and other organizations. We're trying to develop more opportunities for hands-on training and are also trying to bring professionals here to teach classes," Flack says.

Women of Influence Sought

Faculty, staff and students are encouraged to nominate undergraduate women for the prestigious "Women of Influence" awards, sponsored by the Committee on Undergraduate Women's Leadership in conjunction with the Maryland Leadership Development Team. Nominees should be women in good academic standing who bring passion and commitment to a chosen area of involvement, providing a positive influence for the campus. The committee is especially seeking women who use their influence in non-traditional settings. Nominations are due in the Office of Campus Activities (324-7174) by April 4.

Grad School Announces Awards

Sixty-eight faculty members have been selected for 1991-92 General Research Awards, according to the Office of Graduate Studies and Research.

Semester Research Awards go to tenured faculty, allowing them to take off one semester from teaching for research interests. Summer Research Awards are for outstanding younger faculty members, and are designed to provide seed money toward further grants from other sources. Research Support Awards provide funding to researchers for equipment purchases.

The following faculty members have been selected for awards:

Semester Research Awards

Art History: **William L. Pressly**, "The Resurrection of History Painting in British Art;"

Chemistry: **Glenn E. Gordon**, "Feasibility of Controlling Global Climate by Addition of Sulfur to the Atmosphere;"

Computer Science: **Dianne P. O'Leary**, "Numerical Solution of Ill-Posed Problems;"

Economics: **Peter Murrell**, "A Comparative Economic Analysis of Eastern European Economic Reforms;"

English: **Gladys Marie Fry**, "Black Faust in the Blue Ridge Mountains;"

Germanic and Slavic Languages and Literatures: **John Glad**, "History of Russian Literature in Exile;"

Government and Politics: **Ted R. Gurr**, "Minorities at Risk: Dynamics and Outcomes of Ethnopolitical Conflicts Since 1945;"

History: **Maureen Flynn**, "Attitudes Toward Pain and Suffering in Early Modern Spain;"

Human Development: **Stephen W. Porges**, "The Identification of Infants Born of Drug Abusing Mothers who will Develop Behavioral Problems;"

Mathematics: **Michael Boyle**, "Symbolic Dynamics and its Applications;" and **John Millson**, "Rational Homotopy Theory and Deformation Problems from Algebraic Geometry;"

Meteorology: **Robert G. Ellingson**, "Calibration of Clear-Sky Longwave Radiative Transfer Models;"

Music: **Carol E. Robertson**, "Spirit, Gender and Musical Performance;"

Philosophy: **Jeffrey Bub**, "Theory and Evidence in Cognitive Neuropsychology;" and **Conrad D. Johnson**, "A Teleological Theory of Liberal Justice;"

Physics: **Leo Blitz**, "The Bar at the Center of the Milky Way;" **Nicholas J. Hadley**, "The DO Detector at the Fermilab Collider;" and **Dennis Papadopoulos**, "Novel Diagnostic Instruction for Stratospheric Probing;"

Psychology: **Robert Steinman**, "Coordinated Action in 3-D Space;"

Zoology: **Sue C. Carter**, "Oxytocin and Social Bonds."

Summer Research Awards

Athropology: **Erve Chambers**, "Tourism and Cultural Conservation in Thailand;"

Architecture: **Matthew J. Bell**, "The Roman Palace in the Plan of Rome;"

Art History: **Anthony Colantuono**, "Guido Reni and 'The Abduction of Helen': Art, Rhetoric and Politics in Seventeenth-Century Italy;" **Jason C. Kuo**, "Chinese Painting in Taiwan Since 1949 and its Historical Contexts: The Case of Chen Chikwan;" and **Marie Spiro**, "Text and Context: Mosaic Inscriptions in their Architectural, Rhetorical, and Cultural Contexts, 3rd through 6th Centuries;"

Botany: **Michele R. Dudash**, "The Genetic Basis of Inbreeding Depression: Application for Crop Management;" and **Charles B. Fenster**, "Genetic Basis of Seed Size Variation: Agronomic and Ecological Consequences;"

Chemistry: **Cary J. Miller**, "Electron Transfer Measurements at Insulated Electrodes;" and **Sarah Woodson**, "The Influence of rRNA Structure on Splicing of the Tetrahymena Intron;"

Computer Science: **James H. Anderson**, "Wait-Free Algorithms for Realistic Memory Models;"

Criminology: **Sally S. Simpson**, "Women Drug Traffickers: Histories of Drug Abuse and Crime;"

Economics: **Karla Hoff**, "The Costs of Tax-Policy Induced Uncertainty in Tax Incentives;"

Education: **Donelda R. Cook**, "Stress and Resiliency Among Urban Black Adolescents: Strategies for Church Interventions;" **Joan Lieber**, "Symbolic Play Strategies in Young Children with Handicaps;"

John F. O'Flahavan, "Toward a Comprehensive Theory of Literacy Development in Group Discussions about Literary Texts;" and **Kathryn Wentzel**, "Gender and Ethnic Group Differences in Peer Relationships and Academic Achievement;"

Electrical Engineering: **Neil Goldman**, "A Physics-Based Model for Optimizing Solar Cell Design;"

English: **Linda Kaufman**, "Masked Passions: Pornography, Politics, Feminism, 1965-1990;"

Entomology: **David A. O'Brochta**, "Genetic Markers for Insect Gene Vectors;"

Finance: **Pegaret Pichler**, "Price Dynamics in an Oligopolistic Dealership Market with Information Asymmetries;"

Geography: **W. Andrew Marcus**, "Soil Erosion in the Maryland Coastal Plain Since European Settlement;"

Geology: **Eirik J. Krogstad**, "Studies of Crustal Evolution in the Central and Northern Appalachians Based on Pb Isotopic Characteristics of Sediments;" and **Richard J. Walker**, "An Examination of the Rhenium-Osmium Isotope Systematics of Platinum-Group-Element Deposits;"

Government and Politics: **Paul S. Herrnsen**, "The Congressional Campaign Study;"

History: **Ira Berlin**, "African-American Slavery, 1619-1865;" and **Roger R. Thompson**, "Statecraft and Self-Government: Competing Visions of Community and State in Late Imperial China;"

Human Nutrition and Food Sys-

tems: **Carol Karahadian**, "Commercial Quality of Wild-Captured and Aquacultured Striped Bass (*Morone saxatilis*) Native to the Chesapeake Bay;"

Management and Organization: **Susan M. Taylor**, "Creating More Effective Feedback Environments: The Effects of Appraisal Format on the Reactions of Employees and Their Supervisors;"

Management Science and Statistics: **Bruce L. Golden**, "Managing Fish, Forests, Wildlife, and Water: Successful Applications of Operations Research Models to Natural Resource Decision Problems;" and **Bharat K. Kaku**, "Flexibility Considerations in Layout of Flexible Manufacturing Systems;"

Mathematics: **Michael Laskowski**, "Model-Theoretic Consequences of the Non-Independence Property;"

Mechanical Engineering: **Guangming Zhang**, "Control of the Surface Quality During Machining;"

Meteorology: **Russell R. Dickerson**, "Analysis and Modeling of Tropospheric Ozone;"

Music: **Marie F. McCarthy**, "Cultural Ideologies, Folk Music, and Music Education: Insights from Selected Historical Contexts;"

Sociology: **Alan Neustadt**, "Business Political Mobilization and Realignment: 1976-1986;"

Textiles and Consumer Economics: **Girish Grover**, "A New Method to Evaluate Comfort Properties of Textiles Under Sweating Conditions;"

Transportation, Business and Public Policy: **Donald K. Stockdale**, "A Legal and Economic Analysis of Trade Policy in Internationalized Industries;"

Zoology: **James M. Dietz**, "The Role of Kinship in the Behavior and Social Organization of Communal Breeding Primates;" and **Dennis Goode**, "Regulation of Insulin Secretion by Kinesin Binding to and Transport of Secretory Granules."

Research Support Awards

English: **John D. Russell**, "Series of Four Lectures on Commonwealth Literature;"

Health and Human Performance: **Kenneth H. Beck**, "Investigating Hispanic Adolescent Involvement with Alcohol: A Focus Group Interview Approach;"

History: **Benedict J. Warren**, "Diccionario Grande de la Lengua de Michoacan;"

Music: **T. Clark Saunders**, "An Investigation of a Computerized Response Procedure to Assess Latencies of Student Judgments of Sameness and Difference Among Paired Tonal Patterns;" and **Thomas DeLio**, "Music Recording;"

Physics: **Nicholas J. Hadley**, "The DO Detector at the Fermilab Collider;"

Psychology: **Clara E. Hill**, "Case Studies of Therapist Techniques and Client Outcomes;" and **David Yager**, "Bar-Mantis Interactions: A Behavioral Role for Hearing in the Praying Mantis;"

Zoology: **Richard T. Highton**, "Patterns of Genetic Variation in Species of Salamanders of the Genus *Plethodon*."



Ira Berlin



Carol E. Robertson



Leo Blitz



Gladys Marie Fry



W. Andrew Marcus



Carol Karahadian

University to Host Literacy Conference

The university is hosting the Maryland Conference on Literacy in the 90s: Perspectives on Theory, Research, and Practice March 14 and 15 in the auditorium at the Center for Adult Education. The conference, which is being supported by grants from the university's College of Education, the Graduate School, and the Department of Curriculum and Instruction, will address such topics as "Teachers, Materials, and Group Composition in Literacy Instruction" and "Cognitive Research and Its Implications for Reading/Language Arts Instruction." For more information call 405-3128.

F.Y.I.

Opinion:

For the Defense: College Park at Midstream

By Carl Bode, professor emeritus, English

It's not only the 36,000 students who are being formally educated (more or less) on the College Park campus. It's also the thousands of people from the Washington area who inch their way along the crowded roads to take night-school courses on the College Park campus offering them everything from a B.A. to an M.B.A. to a Ph.D.

The fact that the university is being forced to surrender \$14.5 million out of its current budget can damage many of us. Budget cuts are always painful, but having to give back money already received is more painful still.

This is a time of trial for the total university, with every part being currently tested. Students, faculty, staff, and administration are all endangered.

In the past two years the university acquired momentum, thanks to a generous budget, such as it had not known before. But today the recession has reached Maryland. It has created anguish in the office of Governor William Donald Schaefer and distress in many other parts of the state.

So it's been hard lines for College Park. Right now every part of the university is being tested to see not only if it can survive, but also whether it can survive with a certain amount of grace.

Though the reaction of the student body has been less positive and less clear than that of other parts of the university, there has been no dying at the barricades. The students obviously want to be well taught. But it has been obvious that by and large they do not expect miracles, though the student newspaper, *The Diamondback*, has loudly editorialized that the university is engaged in "Screwing Students."

So far, on the esthetic side the students rate a clear A. Let me explain. McKeldin Mall is the biggest open space on the campus. Up to this September, it had nothing to recommend it but its acres of grass. This fall returning students found there several graceful rectangular pools with water flowing down gently from one to the other. The aprons of the pools are paved so that people can sit or lounge and sun themselves. From the day that school started, the students have enjoyed the linked ponds. The test has been whether they would keep from tossing garbage in them. They are earning an A.

The faculty has not been so clearly tested. The usual way for a faculty to respond to any danger to its pay or perks is through angry resolutions or even demonstrations. But what has been happening in College Park amounts to a modest academic miracle. The university Senate, under the leadership last year of political scientist Don Piper and this year of psychologist Bruce Fretz, has shown exceptional good sense and restraint. The Senate has

devoted its time to setting up priorities; it has properly put people ahead of programs or projects. Travel money, for instance, has sunk without a trace, though it can be highly useful. The faculty has showed political sophistication, recognizing that the governor is powerful as well as willful and that the legislature has its own set of priorities.

The administration has shown equal good sense. One of its leaders is Robert Griffith, dean of Arts and Humanities, the most vulnerable of the campus colleges, who says that everyone is naturally concerned but other universities in our region are struggling with similar problems and we are all determined to do our best for our students.

The president of the campus, W. E. Kirwan, has been doing his best to persuade the whole state, not only Annapolis, that although the university's momentum has not been lost, it will surely be endangered if future cuts or give-backs are mandated. Meanwhile, thanks to the enhancement of the recent past, he has attracted such stars as Thomas Schelling, Harvard professor and current president of the American Economics Association. Other gains for the campus that President Kirwan has noted include the siting of the second National Archives building on the College Park campus. He also points with pride to the election of history professor Louis Harlan to head three national historical societies and to the recent recruitment to the faculty of black social critic Mary Helen Washington. The variety of the university's achievements is exemplified in the wetlands research being carried on to help preserve the Chesapeake.

In facing with equanimity the prospect of more work for the same pay, the staff has shown the same good sense that the faculty and administration have shown.

Finally we come to the important matter of the university's dealing with minorities and women. Here we find that its record is increasingly good as the records of state universities go. Its most striking accomplishment was the recruiting of Dr. John Slaughter to preside over the campus. A black engineer-



scientist, he had been director of the National Science Foundation. During his five years as chancellor he made only one notable mistake. He chose the wrong basketball coach.

All parts of the university seem to be doing well at damage control. At this point there is even some risk of viewing College Park's future with unwonted optimism; but it is equally possible to be too pessimistic. Maryland may still grow into a great state university. In fact, it may already be half-way there. And the water in those McKeldin pools may stay clear.

Geography Graduate Student Leader Called for Persian Gulf Duty

Jay Thomas, a Ph.D. candidate in historical geography and a Lieutenant Commander in the Naval Reserves, worked his last day as a teaching assistant and undergraduate advisor in the Department of Geography on Feb. 19 before leaving for active duty in the Persian Gulf. Thomas, a Charleston, S.C. native and Gaithersburg, Md. resident, was vice president of the Graduate Student

Government and a member of the executive committee for the Campus Senate. After a brief training period at a naval facility near Williamsburg, Va., Thomas, a specialist in shore surveillance, will be assigned to the Naval Inshore Undersea Warfare Group Number Two, somewhere in the Persian Gulf. The campus wishes him well and a speedy return to College Park.

CALENDAR

MARCH 11 - 20

11 MONDAY

Quality Improvement Conference: "Quality Improvement for Higher Education," including luncheon address by David Kearns, chair, Xerox Corp., 8:30 a.m.-4 p.m., Stamp Union. Participant registration is \$20. Call the president's office, 405-5803 for info.*

Mental Health Lunch 'n Learn: "Co-Morbidity and Differential Diagnoses of Anxiety Disorders," Bruce Black, National Institutes of Mental Health, Bethesda, 1-2 p.m., 3100E Health Center. Call 4-8106 for info.

Women Faculty Writers Fiction Reading, Joyce Kornblatt, Susan Leonardi, Sibbie O'Sullivan and Kim Roberts, 3 p.m., 0124 Taliaferro. Call 4-3873 for info.

Campus Senate Meeting, 3:30-6:30 p.m., 1026 Reckord Armory. Call 5-5805 for info.

Computer Science Colloquium: "Why All the Fuss about Random Walks on Graphs?," Peter Winkler, Emory U. and Bellcore, 4 p.m., 0111 Classroom Bldg. Call 5-2661 for info.

Space Science Seminar: Richard Goldberg, NASA/Goddard, 4:30 p.m., 1113 Computer and Space Sciences. Call 5-4829 for info.

12 TUESDAY

UMIACS Distinguished Lecture: "The Future of Artificial Intelligence," Marvin Minsky, MIT, 10:30 a.m., auditorium, Adult Education Center. Call 5-6730 for info.

Seminar in Ecology, Evolution, and Behavior: "Influence of Exon Structures on Splicing of *Tetrahymena* Introns," Sarah Woodson, Chemistry and Biochemistry, noon, 1208 Zoo/ Psych. Call 5-6884 for info.

College of Engineering Lecture: "Impact of Women on the Stability of the Engineering Profession in the U.S.," Lilia Abron, PEER Consultants, 2 p.m., Judith Resnik Lecture Hall (EGR-1202). Call 5-3871 for info.

Offices of Undergraduate and Graduate Studies Introduction to Graduate School: "Opportunities for Graduate and Professional Education," for sophomores, juniors, and seniors, small group discussion and refreshments to follow, 3:30 p.m., 2203 Art/Soc. Call 5-9355 for info.

Physics Colloquium: "Matter/Antimatter Symmetry, Beauty, and Quantum Mechanics," Boris Kayser, National Science Foundation, 4 p.m., 1410 Physics, tea reception, 3:30 p.m. Call 5-5953 for info.

Classics Department Lecture: "Postures and Gestures Expressive of Respect and Disrespect in Homer's *Odyssey*," Donald Lateiner, Ohio Wesleyan U.; response, Joseph O'Connor, Georgetown U., 4 p.m., 2309 Art/Soc. Call 5-2013 for info.

13 WEDNESDAY

Campus Recreation Services Team Tennis and Softball, sign up today, 1104 Reckord Armory. Call 4-7218 for info.

Women's Center Film and Discussion: "Miss Universe in Peru," noon-1 p.m. (bring lunch), 0109 Hornbake Library. Call 4-8462 for info.

Counseling Center Research and Development Meeting: "McKeldin Library: 1991 and 1993," H. Joanne Harrar, Director of Libraries, noon-1 p.m., 0106-0114 Shoemaker. Call 4-7691 for info.

Noontime Seminar on Computers in the Arts and Humanities: "Scholarship, Computers, and the International Community," H. Robert Cohen, Center for Studies in 19th-Century Music, noon-1:30 p.m., 4321 Hartwick Road, Suite 220. Call 5-4337 for info.

Center for Teaching Excellence Faculty Discussion, keynote address followed by active dialogue, noon-1:30 p.m. (bring lunch), Maryland Room, Marie Mount. Call 5-3154 for info.

SUPC Issues and Answers Committee Luncheon/Lecture: "Diversity and the Individual," Roberta Coates, Office of Campus Activities, noon, 2111 Stamp Student Union, reservations required. Call 4-8495 for info.

Molecular and Cell Biology Seminar: "Molecular Population Genetics of *Drosophila*," Wolfgang Stephan, Zoology, 12:05 p.m., 1208 Zoo/Psych. Call 5-6991 for info.

Art Department Minorities and Women Lecture, Yuriko Yamaguchi, wall sculptor, 12:30 p.m., 1309 Art/Soc. Call 5-1442 for info.

Foreign Policy Fellows Seminar: "Economic Reform in Latin America," Donald O'Connell, Economics, 3:30 p.m., student lounge, Morrill Hall. Call 5-6353 for info.

Distinguished Scholar-Teacher Lecture: "Socrates' Islamic Conversion," Charles Butterworth, Government and Politics, 4 p.m., 2203 Art/Soc, reception to follow. Call 5-9353 for info.

Theatre Performance: "Domestic Snakes," by Karin Abromaitis, today and tomorrow, 8 p.m., Pugliese Theatre. Call 5-2201 for tickets and info.*

14 THURSDAY

Maryland Conference on Literacy in the 90s: "Perspectives on Theory, Research, and Practice," today 8 a.m.-4:30 p.m., tomorrow 8 a.m.-12:30 p.m., Adult Education Center. Call 5-3128 for info.

College of Business and Management Reception for Campus Office Support Staff, 9:30-11:30 a.m., Carriage House, Rossborough Inn. Call 5-2308 for info.

Systems Research Center Lecture: "Mathematica 2.0" and the New Paradigm for Technical Computing," Stephen Wolfram, Wolfram Research, Inc., 10:30 a.m., Computer and Space Sciences. Call 5-6634 for info.

Graduate Student Government Meeting, 3 p.m., 1143 Stamp Student Union. Call 5-5788 for info.

Comparative Literature Lecture: "Compared to What? Rethinking the Comparative Program," Angelika Bammer, Emory U.; Daniel Moshenberg, George Washington U., and Carla Peterson, English, 3 p.m., Maryland Room, Marie Mount, reception to follow. Call 5-3796 for info.

Meteorology Seminar: "Some Skill Characteristics of CAC Long-range Forecasts," Robert Livezey, Climate Analysis Center,



Malcolm Bilson, the world's leading performer on fortepiano—the historical predecessor to the modern piano—performs music by Haydn, Mozart, and Beethoven, Wednesday, March 20 at 8 p.m., Adult Education Center. Ticket prices are \$17 standard admission, \$14.50 students and seniors. Students are reminded that tickets are \$5 at the door on an as available basis. Call 403-4239 for info.

NMC, 3:30 p.m., 2114 Computer and Space Sciences, reception, 3 p.m. Call 5-5392 for info.

OMSE Reception and Student Presentation: "Celebrating Academic Excellence Among Culturally Diverse Students: African-Americans, Asian-Americans, Hispanics, and Native-Americans," 3-6 p.m., Art/Soc Atrium. Call 5-5620 or 5-5616 for info.

Dance Department Ceremony and Dinner, to Honor Dorothy Madden, reception, 4 p.m.; ceremony, 4:45 p.m., 1136 Dance Bldg.; Improvisations Unlimited workshop, 7:30 p.m.; dinner at Calvert Inn, 5:30 p.m. tomorrow. Call 5-3189 for info.*

Reliability Engineering Seminar: "Systems Engineering Approach for Reliable Computer Hardware and Software," Edmund Westcott, Air Force Systems Command, 5:15-6:15 p.m., 2115 Chem. and Nuclear Engineering Bldg. Call 5-3887 for info.

Guarneri String Quartet Open Rehearsal, 7 p.m., Tawes Recital Hall. Call 5-5548 for info.

University Theatre: "Major Barbara," today-March 16, 8 p.m., Tawes Theatre. Call 5-2201 for info.*

15 FRIDAY

Speech Communication Colloquium: "Rethinking the 'Fear' in Fear Appeals," James Dillard, U. of Wisconsin, noon, 0147 Tawes. Call 5-6524 for info.

Business and Management Research Colloquium: "Optimal Trading Policies and the Pricing of Securities with Personal Taxes," Robert Dammon, Carnegie-Mellon U., 1-2 p.m., 2102 Tydings. Call 5-2256 for info.

University Honors Program Lecture: "How to Study Abroad," Richard Weaver, Study Abroad Program, 2 p.m., Honors Lounge, 0110 Hornbake Library. Call 4-0643 for info.

Maryland University Club Dinner/Lecture/Presentation: "Out of Africa," Richard Ahrens, Fulbright lecturer in Kenya, 1987-88, 7 p.m., Rossborough Inn, reservations required. Call 4-8015 for info.*

Artist Scholarship Benefit Concert: Bradford Gowen, piano and David Soyer, cello, 8 p.m., Tawes Recital Hall, \$10 standard admission; \$7 students and seniors. Call 5-5548 for info.*

University Theatre: "Major Barbara," 8 p.m., Tawes Theatre. See March 14 for details.*

Theatre Performance: "Domestic Snakes," by Karin Abromaitis, today and tomorrow, 9 p.m., Pugliese Theatre. Call 5-2201 for tickets and info.*

16 SATURDAY

St. Patrick's Eve Church Dinner, 4-7 p.m., University United Meth-

odist Church. Call 422-1400 for info.*

University Community Concert: Katherine Hay, flute, and Jeffrey Meyerriecks, guitar, 8 p.m., Tawes Recital Hall, \$12 standard admission, \$9.50 students and seniors. Call 80-4239 for info.*

University Theatre: "Major Barbara," 8 p.m., Tawes Theatre. See March 14 for details.*

Music Department Concert: "Happy Birthday Mozart," 8 p.m., Walters Gallery (Baltimore), \$10 standard admission; \$7 students and seniors. Call 5-5548 for info.*

17 SUNDAY

Music Department Concert: Sigma Alpha Iota and Mu Phi Epsilon Musicales, 3 p.m., Tawes Recital Hall. Call 5-5548 for info.

University of Maryland Choral Concert, Roger Folstrum, conductor, 4 p.m., University Methodist Church. Call 5-5548 for info.

18 MONDAY

Horticulture Seminar: "Managing Crown Gall in Grape Vineyards," T.J. Burr, Cornell U. and NY State Agricultural Experiment Station, 4 p.m., 0128 Holzapfel. Call 5-4336 for info.

Entomology Colloquium: "Economic Thresholds for the Fall Armyworm in Silage," Carlos Pereira, Entomology, 4 p.m., 0200 Symons. Call 5-3912 for info.

Computer Science Colloquium: "MACH: A Technology for Open Systems," Richard F. Rashid, Carnegie-Mellon U., 4 p.m., 0111 Classroom Bldg. Call 5-2661 for info.

University Community Concerts Gala Benefit Performance: Klezmer Conservatory Band, Yiddish music, including supper party and dance to celebrate UCC's 15th season, 7:30 p.m., Arena Stage Kreeger Theatre. Call 80-4240 for info.*

19 TUESDAY

Seminar in Ecology, Evolution, and Behavior: "Costs and Benefits of Non-Offspring Nursing in Evening Bats," Jerry Wilkinson, Zoology, noon, 1208 Zoo/Psych. Call 5-6884 for info.

Writers Here and Now Reading, Margot Livesey, novelist, 3:30 p.m., Maryland Room, Marie Mount. Call 5-3820 for info.

Physics Colloquium: "SAGE, SNO, and Solar Neutrinos," Richard T. Kouzes, Princeton U., 4 p.m., 1410 Physics, tea reception, 3:30 p.m. Call 5-5953 for info.

University of Maryland Concert Band Performance, Steven Johnson, conductor, 8 p.m., Adult Education Center. Call 5-5548 for info.

20 WEDNESDAY

Department of Housing and Design Discussion: "The Effect of Political Change on Housing Policy and Research in the Soviet Union: The Estonian Perspective," Toomas Niit, noon, 1102 Francis Scott Key. Call 5-4386 for info.

Center for Global Change Colloquium, Tom Schelling, Economics and Public Affairs, noon-1:30 p.m. (bring lunch), 1137 Stamp Student Union. Call 80-4165 for info.

Molecular and Cell Biology Seminar: "From Green Revolution to Gene Revolution," Shain-dow Kung, Maryland Biotechnology Institute, 12:05 p.m., 1208 Zoo/Psych. Call 5-6991 for info.

Meteorology Seminar: "Sensitivity Analysis Using an Adjoint of the PSU/NCAR Mesoscale Model," Ron Errico, NCAR, Boulder, CO, 2:30 p.m., coffee served, 2 p.m., 2114 Computer and Space Sciences. Call 5-5392 for info.

Anthropology Lecture: "The Internship Experience: Reflecting on Our Practice," Michael Agar and Mark Leone, Anthropology, 3:00-5 p.m., 1114 Woods Hall. Call 5-1423 for info.

Foreign Policy Fellows Seminar: "A New Order in International Relations," David Lalman, Government and Politics, 3:30 p.m., student lounge, Morrill Hall. Call 5-6353 for info.

Distinguished Scholar-Teacher Lecture: "An Exploration of the Creative Process Involved in Designing Architectural Masterpieces," Richard Etlin, Architecture, 4 p.m., 2203 Art/Soc, reception following. Call 5-9353 for info.

Architecture Lecture: "Current Urban Design Projects," Tom and Marlene Davis, Syracuse U., 7:30 p.m., Architecture Auditorium. Call 5-6284 for info.

Campus Club Women's History Month Presentation: "Women and Health," Colleen Farmer, Wellness Research Laboratory, 7:30 p.m., North Gym. Call 779-2759 for info.

University Community Concerts, Malcolm Bilson, fortepiano, program TBA, 8 p.m., pre-concert seminar, 6:30 p.m., Adult Education Center, \$17 standard admission, \$14.50 students and seniors. Call 80-4239 for info.*

* Admission charge for this event. All others are free.